| Index of | Claims |
|----------|--------|
|          |        |

| Application No. | Applicant(s) |  |
|-----------------|--------------|--|
| 10/626,903      | COWAN ET AL. |  |
| Examiner        | Art Unit     |  |
| Emily Y Chan    | 2829         |  |

| √ | Rejected | _ | (Τ |
|---|----------|---|----|
| = | Allowed  | ÷ |    |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| o | Objected |

| Cla          | aim      | Date           |          |          |              |          |          |          | Claim Date |  |       |                |          |                 | Claim Date      |          |          |           |  |          |          |                |          |              | $\neg$      |               |  |  |  |                |           |               |
|--------------|----------|----------------|----------|----------|--------------|----------|----------|----------|------------|--|-------|----------------|----------|-----------------|-----------------|----------|----------|-----------|--|----------|----------|----------------|----------|--------------|-------------|---------------|--|--|--|----------------|-----------|---------------|
|              |          |                |          |          | ٦            |          | İ        |          | Γ          | Γ  |       |                |          | $\neg$          | $\neg$          | T        | T        |           |  | T        | 1        |                |          |              | $\neg \top$ | П             | T  | $\Box$   |  |                | Т         | ヿ             |
| Final        | Original | 7/8/04         | 11/16/04 |          |              |          |          |          |            |  |       | Final          | Original |                 |                 |          |          |           |  |          |          | Final          | Original |              |             |               |  |  | ļ  |                |           | :             |
| $\vdash$     | 1        | 1              | 1        | -        | -            | $\vdash$ |          | -        |            |  |       |                | 51       | -               |                 | _        | +-       | $\forall$ |  | $\dashv$ | 1        |                | 101      |              | _           | 7             | Ŧ  | 1  | T  | $\dashv$       | 十         | ヿ             |
|              | 2        | 1              | 7        | -        |              | _        |          | ╁        | -          | ┪  |       |                | 52       | $\dashv$        | $\dashv$        | ╅        | +-       | +         | $\vdash$   | ╅        | 1        |                | 102      |              | _           | 1             |  | _  | T  | $\dashv$       | 十         | ᅱ             |
|              | 3        | 1              | v        |          |              |          | 一        | ⊢        | -          | ╁  |       |                | 53       |                 | $\dashv$        | +        | +-       | 1-1       | -  | +        | 1::::    |                | 103      |              | 7           | -1            | 1  | 7  | T  | $\neg$         | 寸         | ┪             |
|              | 4        | 1              | 0        |          |              |          | $\vdash$ | $\vdash$ | ╁╌         | ┢  |       |                | 54       |                 | -+              | $\top$   | +        | $\vdash$  | _  | +        | 1 1      | _              | 104      |              | _           | _             | _  | $\dashv$   | 寸  | _              | 寸         | ᅱ             |
|              | 5        | 1              | 0        |          | _            | -        | -        | ╁╌       | $\vdash$   | <del>                                     </del> |       |                | 55       | $\dashv$        | ╅               | +        | +        | $\vdash$  |  | -        | 1        |                | 105      |              | _           | 寸             | 一  |  | $\dashv$   | 十              | 十         | ヿ             |
| <u> </u>     | 6        | 1              | 7        | _        |              | $\vdash$ | ┢┈       | ├─       | ╁          | ┢  |       |                | 56       | $\dashv$        | $\dashv$        | +        | +        | +         | $\vdash$   | +        | 1        |                | 106      | $\neg$       | $\vdash$    | _             | ᅥ  | _  | $\dashv$   | 十              | 十         | ᅥ             |
| <del> </del> | 7        | 1              | 7        | _        |              |          | ┢        | ┢        | ╁          | -  |       |                | 57       |                 | $\dashv$        |          | +-       | +         | H  | +-       | 1        |                | 107      |              |             | $\dashv$      | ᅱ  |  | _  | 十              | ヿ         |               |
|              | 8        | 1              | 1        |          |              |          | ├        | $\vdash$ | ╁          | ╆  |       |                | 58       |                 | +               | -        | +-       |           | $\vdash$   | +        | 1 1      |                | 108      |              | Ħ           | 寸             | ᅱ  | _  | $\dashv$   | $\dashv$       | 十         | _             |
|              | 9        | 1              | 0        |          |              |          | ┢        | $\vdash$ | $\vdash$   | ┢  |       |                | 59       |                 | +               | _        | +        | 1-        | H  | +-       | 1::::    |                | 109      | _            | $\neg$      | 一             | $\neg$   |  | ╛  | 十              | 十         | ヿ             |
| -            | 10       | 1              | 0        | -        | _            |          | ├-       | -        | +          | $\vdash$   |       |                | 60       | $\vdash$        |                 | $\dashv$ | +-       | +         | $\vdash$   | Ť        | 1        |                | 110      |              | $\neg$      | 一             | $\dashv$   | 7  | $\dashv$   | $\dashv$       | 十         | ┪             |
| <del> </del> | 11       | 1              | 7        | -        | -            | ┢        | ┝╌       | ╁╾       | ╁╌         | ┢  |       |                | 61       | -               |                 | $\dashv$ | ╁        | +         | $\vdash$   | +        | -        |                | 111      | -            |             | _             | _  | 7  | 寸  | 十              | 十         | ᅥ             |
|              | 12       | 1              | 1        | -        | -            |          | $\vdash$ | -        | +          | $\vdash$   |       |                | 62       | $\vdash \vdash$ | $\dashv$        | $\dashv$ | +-       | $\vdash$  | $\vdash$   | +        | 1        |                | 112      |              | $\vdash$    | $\neg$        | $\dashv$   | _  | $\dashv$   | 十              | $\dashv$  | $\dashv$      |
|              | 13       | 1              | 1        | -        |              | $\vdash$ | -        | -        | -          | 1  |       |                | 63       | $\vdash$        | $\dashv$        | +        | ╁╴       | †         | $\vdash$   | +        | 1:::     |                | 113      |              | $\dashv$    | -             | -  | _  | $\neg$   | $\dashv$       | $\dashv$  | ヿ             |
|              | 14       | 1              | 0        | -        | _            | $\vdash$ | 1-       | ┼        | +-         | $\vdash$   |       |                | 64       | $\vdash$        | +               | +        | +        | +-        | ++   | +        | 1::::    |                | 114      |              | $\vdash$    | 一十            | $\neg$   | $\dashv$   | _  | $\dashv$       | $\dashv$  | ㅓ             |
| <del> </del> | 15       | 1              | 0        | -        | -            | 1        |          | +-       | +          | $\vdash$   | 1     |                | 65       |                 | $\dashv$        | +        | +        | +-        | +  | +        | 1        |                | 115      |              |             | $\neg$        |  | _  |  | 十              | 一         | $\dashv$      |
| <del></del>  | 16       | 1              | 1        | H        | <del> </del> | +        | 1        |          | +-         | ╁  | ł     |                | 66       |                 | $\dashv$        | +        | +        | +         | $\vdash$   | $\dashv$ | 1        |                | 116      |              | $\vdash$    | $\dashv$      |  | - †  |  | $\dashv$       | $\dashv$  | 一             |
| <u> </u>     | 17       | 1              | 1        | Н        | -            | ╁─       | -        | 1        | +-         | ╁  | liii  |                | 67       | $\vdash$        | +               | -+       | +        | +         | <del>  -</del>                                   | $\top$   | 1::::    |                | 117      | Н            | $\vdash$    | $\dashv$      |  | -  | _  | $\dashv$       | $\dashv$  | ㅓ             |
| <u> </u>     | 18       | 1              | 1        | $\vdash$ | -            | $\vdash$ | ╁        | ╁        | ╁          | ┼  |       |                | 68       | $\vdash$        | $\dashv$        | -+       | +        | +-        | ╌┼   | +        | 1        |                | 118      |              | $\vdash$    | ᅥ             |  | $\dashv$   | 1  | $\neg +$       | $\dashv$  | ᅥ             |
|              | 19       | 1              |          | _        | ┝            | ┢        | ┼        | ╁╾       | ╁          | $\vdash$   |       |                | 69       | Н               | $\dashv$        | -        | +        | +         | <del>   </del>                                   | +        | ┨┈       |                | 119      |              | $\vdash$    | _             | $\dashv$   | _  | _  |                | 寸         | $\neg$        |
|              |          | 1              | 0        | -        |              | -        | $\vdash$ | ├        | +-         | $\vdash$   | 1     |                | 70       | Н               | $\dashv$        | -        | +-       | +         | ├─┼  | +        | 1::::    | <b></b>        | 120      | -            | $\vdash$    |               | $\neg$   |  | $\dashv$   |                | $\dashv$  | 一             |
| -            | 20       | ├ <del>`</del> | ٥        | -        | <del> </del> | ┢        | $\vdash$ | $\vdash$ | ╁          | ╀  |       |                | 71       | $\vdash$        | $\dashv$        | +        | +        | -         | <del>                                     </del> |          | 1::::    |                | 121      | -            | $\vdash$    | _             | Н  | -  |  | $\dashv$       | $\dashv$  | $\dashv$      |
| <u> </u>     | 21       | <del> </del>   |          | <u> </u> | ├            | ├        | ╁        | ╁        | ╁╴         | ┢  |       |                | 72       | $\vdash$        |                 | +        | ╁        | +         | $\vdash$   | $\dashv$ | -        |                | 122      | -            | $\vdash$    | $\dashv$      | _  |  |  | $\dashv$       | 7         | $\dashv$      |
| -            | 23       | ├              | -        | ⊢        | ⊢            | -        | ╁        | ╁        | ┿╌         | ╁  |       | ├              | 73       | $\vdash$        | -               | +        | +        | +-        | <del>   </del>                                   | $\dashv$ | 1        | -              | 123      | $\vdash$     | Н           | $\dashv$      | $\neg$   |  |  | $\dashv$       | $\neg$    | $\dashv$      |
|              | 24       | ├              | _        |          | -            | ╁        | ╁        | ╁┈       | +-         | $\vdash$   | ł     |                | 74       | $\vdash$        | +               | -        |          | 1         | 1  | +        | -        | -              | 124      | <del> </del> | H           | $\dashv$      |  |  |  | $\dashv$       | $\dashv$  | $\neg$        |
| -            | 25       | $\vdash$       | $\vdash$ | ⊢        | _            | -        | ╁        | ┼        | ╁╴         | ╁  |       |                | 75       | Н               |                 | $\dashv$ | +        | +         | ┼─┼  | +        | 1::::    |                | 125      | $\vdash$     | H           |               |  |  |  |                | 寸         | $\neg$        |
|              | 26       | ┢              | ┢        | -        | -            | ╁        |          | ╁        | +          | +  | ł:::: |                | 76       | Н               | $\dashv$        | -        | +        | +         |  | +        | 1::::    |                | 126      |              |             | -             |  |  |  | $\neg$         | $\dashv$  | $\neg$        |
|              | 27       | ┢              |          | $\vdash$ |              | ╁        | ┿        | +        | +          | ╁  | 1     |                | 77       | Н               |                 | -        | +        | +-        | 1  | +-       | -        | 一              | 127      | H            | H           |               |  | -  |  | $\dashv$       | 寸         | $\neg$        |
|              |          | ├              | -        | -        | $\vdash$     | ┼-       | ╁        | ╁        | ╁          | ╫  | 1     |                | 78       | Н               | -               | +        | +        | +-        | $\vdash$   | +        | 1::::    | $\vdash$       | 128      |              | $\vdash$    |               |  | $\neg$   | $\neg$   | $\exists$      | 一         | _             |
|              | 28       | -              | ├-       |          | ⊢            | -        | +-       | +        | ╁          | ╫  | 1     | <del></del>    | 79       | H               | -               | +        | +-       | +         | ╁  |          | 1888     |                | 129      | _            | 1-1         |               | $\vdash$   | Н  |  | $\neg \dagger$ | $\neg$    | $\neg$        |
|              |          | -              | ┢        |          |              | ╁        | ┼        | ╁        | ╁╌         | ╁  | 1     |                | 80       | -               | $\dashv$        | +        | +        | +         | $\vdash$   |          | -        |                | 130      | 1            | ┥           |               | -  | $\vdash$   |  | $\dashv$       | ᅥ         | $\neg$        |
|              | 30       | -              |          | -        | ⊢            | ╁        | ╁        | ╁        | ╁          | ┿  | 1     | <u> </u>       | 81       | $\vdash$        | -               | -+       | ╁        | ╁         | 1  | $\dashv$ | -        | $\vdash$       | 131      | -            | H           | $\overline{}$ | _  | -  |  | 一              | $\neg$    | $\neg$        |
|              | 32       | ├              | $\vdash$ | ├-       | ├            | ╁        | ╁        | ╫        | ╁          | ╁╌   | -     | <u> </u>       | 82       | 1               |                 | -+       | +        | +         | ╁┼   | ╅        | ┨∷       | -              | 132      | -            | $\vdash$    | -             |  |  | -  | 一十             | $\dashv$  | $\neg$        |
|              |          | -              | ├        | -        | ⊢            | ╁        | ╄        | ╁        | +          | ╁╾   | 1     |                | 83       |                 | $\vdash$        | -+       | +        | ╁         | ╁┼   |          | -        |                | 133      | ┢╾           | $\vdash$    |               | -  | Н  | $\vdash$   | $\dashv$       | $\neg$    | =             |
|              | 33       | -              | ┢        | ├-       | -            | ╁        |          | ╁        | 1-         | ╁╌   | ł     |                | 84       | H               |                 | -+       | +        | +-        | +++  |          | -        |                | 134      | ┝╌           | -           | -             | _  |  | $\vdash$   | $\dashv$       | $\dashv$  |               |
| -            | 34<br>35 | -              | ├-       | $\vdash$ | $\vdash$     | ╁        | +-       | +        | +          | +  | 1:::: | <del></del>    | 85       | $\vdash$        | $\vdash \vdash$ | $\dashv$ | +        | +         | <del>                                     </del> | +        | 1::::    |                | 135      | t            | $\vdash$    | _             | $\vdash$   | $\vdash$   |  | $\dashv$       | $\dashv$  | -             |
| -            |          | +              | -        | ├—       | -            | ╁        | -        | ╀        | +          | +  | 1:::: | <u> </u>       | 86       | $\vdash$        | $\vdash$        | +        | +        | +-        | ++   | +        | 1        | $\vdash$       | 136      | t            | $\vdash$    |               | $\vdash$   | $\vdash$   | $\vdash$   | $\neg$         | $\dashv$  | _             |
| <u> </u>     | 36<br>37 | $\vdash$       | ┼        | +-       | $\vdash$     | +        | +-       | +        | +          | +  | 1     | <del></del>    | 87       | $\vdash$        | $\vdash \dashv$ | $\dashv$ | +        | +         | ++   | $\dashv$ | 1        | _              | 137      | $\vdash$     | $\vdash$    | -             | $\vdash$   |  |  | $\dashv$       | $\dashv$  | _             |
|              | 38       | -              | ┼        | $\vdash$ | $\vdash$     | ╁╾       | +-       | +        | +          | ╁  | 1     | -              | 88       | -               | $\vdash$        | +        | ╁        | +-        | + +  | +        | -        | $\vdash$       | 138      | ╁╌           | H           | -             | $\vdash$   | <del>                                     </del> |  | $\vdash$       | $\dashv$  |               |
| -            | 39       | +              | +-       | $\vdash$ | ├-           | ╫        | +        | +        | +-         | +  | 1     | <del> </del>   | 89       | $\vdash$        |                 | $\dashv$ | +        | +         | +  | $\dashv$ | 1        | -              | 139      | T            | Н           |               | $\vdash$   | $\vdash$   |  | $\sqcap$       | $\dashv$  | -             |
|              | 40       | +-             | ╌        | -        | ╁            | +-       | +        | +        | +          | +  | 1     |                | 90       | +-              | $\vdash$        |          | +        | +         | ++   | -        | $\dashv$ | <b> </b>       | 140      | T            | Н           |               | _  | $\vdash$   | $\vdash$   | 一              | $\dashv$  |               |
| -            | 41       | +              | ┼        | ┢        | +-           | +        | +        | ╁┈       | +          | +-   | 1:::  | -              | 91       | H               | H               | $\dashv$ | +        | +-        | +-+  | -+       | 1        | $\vdash$       | 141      | T            | Н           | _             | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | $\sqcap$       | $\dashv$  | _             |
| -            | 41       | $\vdash$       | ╁        | ┼        | ╀            | +        | +-       | +-       | +-         | +  | 1     | $\vdash$       | 92       | $\vdash$        | ┢┿              | $\dashv$ | +        | +         | 1-1  | +-       | 1        | $\vdash$       | 142      | $\vdash$     | $\vdash$    |               |  | <del>                                     </del> | <del>                                     </del> | $\sqcap$       | -         |               |
| -            | 42       | +-             | +-       | $\vdash$ | $\vdash$     | +-       | ╁        | ╁        | +          | +  | 1:::  | <del> </del>   | 93       | -               | $\vdash \vdash$ | $\dashv$ | $\dashv$ | +         | +  |          | ┧        | $\vdash$       | 143      |              | $\vdash$    | _             |  | <u> </u>   | $\vdash$   | $\vdash$       |           |               |
|              | 44       | +              | $\vdash$ | $\vdash$ | ┼-           | +-       | +        | ╁        | +          | +  | 1     | <del> </del>   | 94       | ╁               | $\vdash$        | $\dashv$ | ╁        | +         | ++   |          |          |                | 144      | 1            | Н           |               | $\vdash$   | t –  |  | П              | $\exists$ | _             |
| <del></del>  | 45       | 1              | +        | +-       | $\vdash$     | +        | +        | +        | +          | +  | -     | -              | 95       | $t^-$           | $\vdash \vdash$ | $\dashv$ | - -      | +         | +  | $\dashv$ | 1        | <b> </b>       | 145      |              | T           |               |  | $\vdash$   |  | П              | _         | _             |
| -            | 46       | +              | +        | +        | ╁            | +        | +        | +        | ╁          | ╁  | 1     | $\vdash$       | 96       | +               | $\vdash \vdash$ | $\dashv$ | +        | +         | +  | +        | -        | $\vdash$       | 146      | t            | $\vdash$    |               | $\vdash$   | $\vdash$   |  |                | _         | <u> </u>      |
|              | 47       | +              | ╁        | ╁        | +            | ╁        | +        | ╁╌       | +          | +-   | 4     | $\vdash$       | 97       | ╁               | $\vdash \vdash$ | $\dashv$ | +        | +         | +-+  | +        | - ∷      | $\vdash$       | 147      |              |             | -             |  | T  |  |                |           | $\Box$        |
| <b>-</b>     | 47       | ┼              | ╁        | ╁        | $\vdash$     | +        | ╫        | +        | +          | +-   | ┨┈    | <del>  -</del> | 98       | +               |                 |          | +        | +         | ╅═┪  | +        | -        | <del> </del>   | 148      | +            | $\vdash$    | $\vdash$      | H  | H  | t -  | $\vdash$       |           |               |
| -            | 49       | ┰              | +        | +        | -            | +        | +-       | ╁        | +-         | +  | -     |                | 99       | $\vdash$        | $\vdash$        | -        | +        | +-        | +-+  | +        | -        |                | 149      | t            | $\vdash$    | $\vdash$      | T  | ┢  | $\vdash$   | Н              |           | $\overline{}$ |
| -            | 50       | +              | ₩        | +-       | $\vdash$     | +-       | +        | +-       | +-         | ╁╴   | 1     |                | 100      | ╁               | H               | $\dashv$ | +        | +         | ┿  | -        | -        | <del>  -</del> | 150      | +-           | $\vdash$    | Ι-            | _  | $t^-$  | $\vdash$   | $\vdash$       |           |               |
| L            | 1 20     | 1              | 1        | <u> </u> | 丄            | 1        |          |          | ┸          | ┸  | J:-:- |                | 1 100    | 1               | LЦ              |          |          |           | 1. 1   |          | :::      |                | 130      | 1            |             | Щ.            | 1  |  | Ц  | لـــــا        |           | ш.            |